Clothianidin Bound Sediment 1 in 10 Year EECs

Table 1. Estimated Bound Sediment Concentrations for Clothianidin.

Scenarios	Peak	21-day Average	60-day Average
Seed Treatment: Pond Sediment Bound 1/10 year EECs (low incorp. efficiency) --- ng/g (ppb) ---			
CA Cotton	1.47	1.46	1.45
MS Cotton	10.69	10.66	10.57
NC Cotton	12.83	12.80	12.73
ND Canola (mustard seed)	2.25	2.25	2.24
Seed Treatment: Pond Sediment Bound 1/10 year EECs (high incorp. efficiency) --- ng/g (ppb) ---			
CA Cotton	0.74	0.74	0.74
MS Cotton	5.48	5.47	5.43
NC Cotton	6.77	6.77	6.75
ND Canola (mustard seed)	1.18	1.18	1.17

Table 2. Top soil / sediment organic carbon fraction by PRZM/EXAMS scenario.

Scenarios	Organic Carbon (Percent)	Organic Carbon (Fraction)	
Seed Treatment: Pond Sediment Organic Carbon Levels, Cotton and Canola Scenarios[1]			
CA Cotton	0.29%	0.0029	
MS Cotton	1.28%	0.0128	
NC Cotton	2.32%	0.0232	
ND Canola	2.36%	0.0236	

Table 3. Bound Sediment Concentrations for Clothianidin normalized to Organic Carbon content.

Scenarios	Peak	21-day Average	60-day Average

[1] Pond sediment Organic carbon fraction assumed to be equal to the fraction of organic carbon in horizon 1 for the associated PRZM scenario.

Seed Treatment: Pond Sediment Bound 1/10 year EECs (low incorp. efficiency) --- ng/g (ppb) ---			
CA Cotton	5.07	5.03	5.00
MS Cotton	8.35	8.33	8.26
NC Cotton	5.53	5.52	5.49
ND Canola (mustard seed)	0.95	0.95	0.95
Seed Treatment: Pond Sediment Bound 1/10 year EECs (high incorp. efficiency) --- ng/g (ppb) ---			
CA Cotton	2.55	2.55	2.55
MS Cotton	4.28	4.27	4.24
NC Cotton	2.92	2.92	2.91
ND Canola (mustard seed)	0.50	0.50	0.50